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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

04/30/2010

TUCKER ELLIS & WEST LLP 1150 HUNTINGTON BUILDING 925 EUCLID AVENUE CLEVELAND, OH 44115-1414

EXAMINER				
OVEISSI, DAVID M				
ART UNIT	PAPER NUMBER			
2464				

DATE MAILED: 04/30/2010

A	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/734.081	12/10/2003	Simon Sabato	072255/000462	7960

TITLE OF INVENTION: SYSTEM AND METHOD FOR QUEUE MANAGEMENT USING QUEUE SETS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$0	\$0	\$755	07/30/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance of herwise in Block 1, by (orders and notification of a (a) specifying a new corres	maintenance fees v spondence address	will be ; and/o	mailed to the current r (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
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CLEVELAND,	OH 44115-1414						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/734,081	12/10/2003	•	Simon Sabato			072255/000462	7960
TITLE OF INVENTION	I: SYSTEM AND METH	HOD FOR QUEUE MAN	AGEMENT USING QUE	UE SETS			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$0	\$0		\$755	07/30/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS]			
OVEISSI,	DAVID M	2464	370-412000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee	T a substitute for filing an (B) RESIDENCE: (CITY	oatent. If an assign assignment. Y and STATE OR (COUNT	TRY)	ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	Individual 🖵 C	orporat	ion or other private gro	oup entity Government
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5. Change in Entity Sta	`	· · · · · · · · · · · · · · · · · · ·					
••	as SMALL ENTITY state		b. Applicant is no lon				FR 1.27(g)(2). The assignee or other party in
interest as shown by the	records of the United Sta	ites Patent and Trademar	k Office.	те аррисані; а гед	isterea	attorney or agent; or th	le assignée or other party in
Authorized Signature				Date			
Typed or printed name				Registration 1	No		
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TUCKER ELLIS	& WEST LLP		OVEISSI,	DAVID M
1150 HUNTINGT			ART UNIT	PAPER NUMBER
925 EUCLID AVE CLEVELAND, OI			2464 DATE MAILED: 04/30/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 712 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 712 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/734,081	SABATO ET AL.	
Notice of Allowability	Examiner	Art Unit	
	DAVID OVEISSI	2464	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED 5) or other appropriate com RIGHTS . This application i) in this application. If not included munication will be mailed in due course	
1. This communication is responsive to <u>01/21/2010</u> .			
2. X The allowed claim(s) is/are 1-4, 6-9, 12-15, and 17-20(R	enumbered as 1-16 respe	<u>ctively)</u> .	
3. ☐ Acknowledgment is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents ha 2. ☐ Certified copies of the priority documents ha 3. ☐ Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE	ve been received. ve been received in Application to a communication	tion No /ed in this national stage application fro	
 noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g 	omitted. Note the attached E		E OF
5. CORRECTED DRAWINGS (as "replacement sheets") m	ust he submitted		
(a) ☐ including changes required by the Notice of Draftspe		ew (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date		(
(b) ☐ including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR			of
each sheet. Replacement sheet(s) should be labeled as such in	n the header according to 37	CFR 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN 			ne
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	3) 6. ☐ Interview Paper N 7. ☐ Examine	Informal Patent Application Summary (PTO-413), o./Mail Date 's Amendment/Comment 's Statement of Reasons for Allowance	Э
/David Oveissi/	4/20/2010		
Examiner, Art Unit 2464			

DETAILED ACTION

Claims 5, 10-11, and 16 have been cancelled.

Allowable Subject Matter

1. Claims 1-4, 6-9, 12-15, and 17-20 are allowed.

The following is an examiner's statement for reasons for allowance:

2. Claims 1-4, 6-9, 12-15, and 17-20 are allowable over the prior art of record since references taken individually or in combination fails to particularly disclose

A method for managing a queue of packets using queue set data structures, the method comprising: transforming a plurality of consecutive packets into a queue set data structure based on a target queue set data structure size, the plurality of consecutive packets being associated with the queue, wherein the plurality of consecutive packets comprises a first packet having a first packet size and a second packet having a second packet size; performing a queuing operation on the queue set data structure, the queuing operation treating the queue set data structure as a single entity, and the queuing operation being performed on each of the plurality of consecutive packets in the queue set data structure; determining whether transforming a third consecutive packet into the queue set data structure results in the sum of the

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packet sizes exceeding the target queue set data structure size; and responsive to determining the sum exceeds the target queue set data structure size: closing the queue set data structure; initiating a new queue set data structure; and adjusting a target queue set data structure size allocated for the new queue set data structure based upon an amount the sum of the packet sizes exceeds the target queue set data structure size, wherein performing the queuing operation further comprises shaping traffic flow of the queue set data structure at a rate for transmission of data from the queue.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID OVEISSI whose telephone number is (571)270-3127. The examiner can normally be reached on Monday to Friday 8:00 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571) 272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ricky Ngo/ Supervisory Patent Examiner, Art Unit 2464
